

Cover Sheet: Request 12082

Course Change CGN 4160

Info

Process	Course Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Robert Thieke robert.thieke@essie.ufl.edu
Created	11/21/2017 9:53:54 AM
Updated	1/25/2018 4:07:00 PM
Description of request	Change of credit hours from 4 credits to 3 credits.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Civil and Coastal Engineering 011904000	Robert Thieke		11/21/2017
No document changes					
College	Conditionally Approved	ENG - College of Engineering	Heidi Dublin	Cond Approved. Per Curriculum Committee please update attendance policy/wording re: quizzes and week to week content.	11/29/2017
No document changes					
Department	Approved	ENG - Civil and Coastal Engineering 011904000	Robert Thieke		11/29/2017
No document changes					
College	Recycled	ENG - College of Engineering	Heidi Dublin	Please edit week to week schedule.	1/5/2018
No document changes					
Department	Approved	ENG - Civil and Coastal Engineering 011904000	Robert Thieke	Week-to-week schedule of topics changed according to request	1/5/2018
CGN 4160 Syllabus Civil Engineering Practice Fall 2017_3cr Version 3.pdf					
College	Approved	ENG - College of Engineering	Heidi Dublin		1/25/2018
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			1/25/2018
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					

Step	Status	Group	User	Comment	Updated
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|Modify for request 12082

Info

Request: Course Change CGN 4160
Description of request: Change of credit hours from 4 credits to 3 credits.
Submitter: Robert Thieke robert.thieke@essie.ufl.edu
Created: 11/21/2017 9:50:02 AM
Form version: 1

Responses

Current Prefix CGN
Course Level 4
Number 160
Lab Code None
Course Title Civil Engineering Practice
Effective Term Fall
Effective Year 2018
Requested Action Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? No

Change Transcript Title? No

Change Credit Hours? Yes
Current Credit Hours 4
Proposed Credit Hours 3
Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Maximum Repeatable Credits 0
Change Course Description? No

Change Prerequisites? No

Change Co-requisites? No

Rationale This course addresses ABET Civil Engineering Program Criteria by equipping the students with basic concepts in management, business, public policy and leadership. It will emphasize the importance of professional licensure in the civil engineering discipline. Reduction to 3 credit hours will be accommodated by removal of topics on plans reading and project closeout, and will allow the addition of a 2-credit programming class into the required curriculum.

Civil Engineering Practice

CGN 4160 Section #094A

Class Periods: TR 5-6

Location: MAEB 0211

Academic Term: Fall 2017

Instructor:

Christopher C. Ferraro, Ph.D., P.E.

460B Weil Hall

(352) 392-0959

E-mail address: ferraro@ce.ufl.edu

Office hours: by appointment

Teaching Assistant:

Alyssa Egnew

460B Weil Hall

E-mail address: aegnew@ufl.edu

Office hours: 3rd period Monday, Wednesday, Friday or by appointment

Catalog Description:

Fundamentals of civil engineering professional practice: project management, construction delivery processes, business concepts, public policy, administration and leadership.

Credits: 4 (*to be changed to 3*)

Pre-requisite: EGM 2511 or equivalent

Co-requisite: CGN 2328

Course Objectives - The student is expected to learn:

- Civil Engineering as a profession
- Ethical code and conduct of an Engineer
- Fundamental concepts in engineering project management
- Fundamental concepts in construction delivery process
- Fundamental public policy and public administration concepts
- Leadership
- Interaction with practicing Civil Engineers
- Sustainable Engineering Practices

Materials and Supply Fees: n/a

Professional Component (ABET):

This course addresses ABET Civil Engineering Program Criteria by equipping the students with basic concepts in management, business, public policy and leadership. It will emphasize the importance of professional licensure in the civil engineering discipline.

Relationship of Course to Program Outcomes (ABET):

Outcome	Coverage*
a. Apply knowledge	Low
b. Conduct experiments	
c. Design	
d. Function on teams	
e. Solve problems	
f. Professional and ethical responsibility	High
g. Communication	Medium
h. Global, societal, and environmental impacts	Medium
i. Lifelong learning	High
j. Contemporary issues	High
k. State-of-the-art techniques, skills, and tools	Low

*Coverage is given as high, medium, or low. An empty box indicates that this outcome is not part of the course.

Required Textbooks:

Plans Reading Test Book, Plans Reading Plan Book, Plans Reading Test booklet – *available on canvas; also available through ASCE.*

Recommended Reading:

Reading will be assigned prior to class and students are expected to be prepared to discuss the material. Class discussion, with participation by all, is an integral part of the learning process.

Course Schedule:

Topics by Week	Description
1 - Introduction	Overview of the civil engineering industry and history
2 - Fundamentals of Earth	Introduction to geotechnical materials
3 - Ethics	Ethical codes and conduct
4 - Construction Methods and Equipment	Methods and equipment used in construction
5 - Licensure	Accreditation and the professional license
6 - Earthwork Analysis	Mass Haul Diagrams
7 - Engineering Organizations	Basic concepts: private and public organizations, types of organization structures, legal structures
8 - Safety in Construction	Worker health, safety and environment
9 - Specifications	Contract documents and construction specifications
10 - Planning and Scheduling	Activity planning, bar charts, critical path method, rolling schedules, updates of schedules
11 - Scheduling (cont.)	Lineal scheduling computer applications for scheduling projects – Microsoft Project

12 – Preconstruction	Client requirements, conceptual design, design - scope and deliverables, project financing, project bidding
13 – Project Delivery	Project delivery systems, negotiated projects, owner-designer-contractor relationships, administrative aspects, project closeouts
14 - Contracts	The contractor and the design team (Engineer/architect), contract negotiation, changes
15 - Estimating	Introduction to estimating methods
16 - Tentative Topics	Temporary Structures, Concrete Formwork, Masonry Cranes

Note: The schedule is subject to change upon instructor's notice

Attendance and Expectations:

Attendance in this course is not mandatory; however, participation from students during lecture is expected. It is STRONGLY recommended the student attend every lecture. A large portion of the information necessary for the completion of the course is made available during lecture and is not available outside of lecture. Those students who do not attend class are expected to acquire information presented in class from a classmate. Quizzes will be given during class when a guest speaker presents to the class. Excused absences are consistent with university policies in the undergraduate catalog and require appropriate documentation: (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>)

Grading:

Class participation, in class assignments - 10%

Presentation and Paper - 10%

Quiz average – 80% *

* Note: seven in-class, close book quizzes will compromise 80% of your final grade. The lowest of the *first six quiz* grades will be dropped. The seventh quiz is mandatory.

Homework Assignments: This class has optional ungraded homework assignments.

Grading Policy: Letter grades will be determined by the instructor, by listing students' total scores out of 100% from high to low and making grade boundaries at appropriate breaks in the listing.

A	91.995 and above	****NOTE****
A-	88.995 – 91.994	Canvas is used to show grades; however, Canvas will round your grades off and may NOT accurately reflect your actual grade. Therefore, Canvas should be used only as a rough estimate of your grades, especially if TA does not enter "0" if you don't turn in an assignment. Canvas will not take "ungraded" assignments into account and your grade will be artificially high. It would be in your best interest to create a spreadsheet with the appropriate weighting to figure out your grade.
B+	85.995 – 88.994	
B	82.495 – 85.994	
B-	79.995 – 82.494	
C+	77.495 – 79.994	
C	72.995 – 77.494	
C-	69.995 – 72.994	
D+	64.495 – 69.994	
D	59.995 – 64.494	
E	<59.994	

More information on UF grading policy may be found at:
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Tentative Quiz Schedule

Quiz 1	September 8
Quiz 2	September 22
Quiz 3	October 11
Quiz 4	October 25
Quiz 5	November 10
Quiz 6	November 17 (plans reading)
Quiz 7	December 6 (mandatory)

Group Presentation Schedule

Group Presentations will be held in class November 29 and December 1 – Research Paper due December 1 at the beginning of class. We will have in-class assignments on both days.

Calculator Policy for Exams and Quizzes - The only calculators that are permitted for use during tests are the same as those permitted for the Fundamentals of Engineering Exam, which all civil engineering students are required to take prior to graduation. There are no exceptions to this requirement. The only acceptable models of calculators are listed below. Use of any other calculator during the exam must be approved by the instructor at least 48 hours before the exam.

Casio:	All fx-115 models. Any Casio calculator must contain fx-115 in its model name.
Hewlett Packard:	The HP33 and HP35s, but no others.
Texas Instruments:	All TI-30X and TI-36X models.

Cellular Telephone Policy for Exams and Quizzes - Cellular telephones are disruptive during class and should be turned off. Cellular telephones must be turned off and stored away (preferably in a book bag) during exams and quizzes. Any student using a cellular telephone during a test will be considered to be in violation of the academic honesty policy and will be subject to disciplinary action.

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu/evals>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

University Honesty Policy

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see:

<http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

Campus Resources:

Health and Wellness

U Matter, We Care:

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. <https://lss.at.ufl.edu/help.shtml>.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. <https://www.crc.ufl.edu/>.

Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <https://teachingcenter.ufl.edu/>.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <https://writing.ufl.edu/writing-studio/>.

Student Complaints Campus:

https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

On-Line Students Complaints: <http://www.distance.ufl.edu/student-complaint-process>.